Technical data

24036.EAW33C4

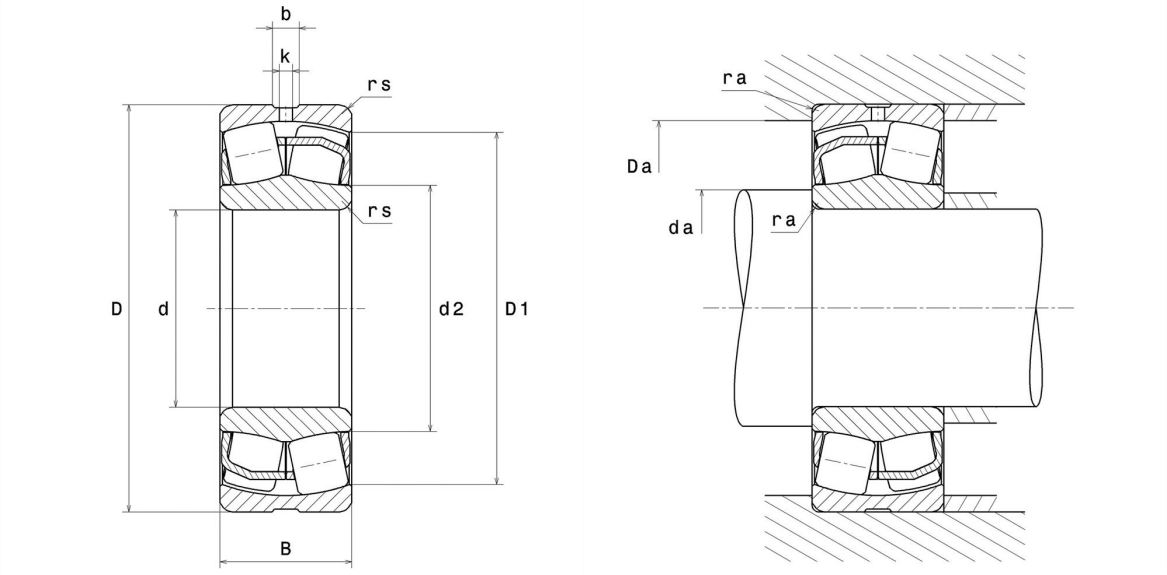
Double row spherical roller bearings



Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring

ULTAGE

Visual(s)



Product definition

d	180 mm
D	280 mm
B	100 mm
d2	202.4 mm
D1	249 mm
rs min	2.1 mm
Number of lubrication holes	3
b	11.8 mm
k	5 mm
Associated sleeve reference	P0
e	0.31
Y1	2.21
Y2	3.29
Y0	2.16
Radial clearance class	C4
Mass	22.9 kg
Brand	SNR

Product performance

Dynamic load, C	1,270 kN
Static load, C0	1,830 kN
Fatigue limit load, Cu	109 kN
Nref	1,500 Tr/min
Nlim	2,200 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.59 Hz
Characteristic outer ring frequency, BPF0	10.65 Hz
Characteristic inner ring frequency, BPFI	13.35 Hz

Abutment dimensions

da min	190.2 mm
da max	2 mm
Da max	269.8 mm
ra max	2 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa/Fr \leq e$		$Fa/Fr > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .